

TOP SECRET

MAGERY

NALYSIS



STAFF

PIR

**THE REGIONAL PETROLEUM STORAGE
OF CHINA**

DECLASS REVIEW by NIMA/DOD



CIA/PIR 75105



25X1

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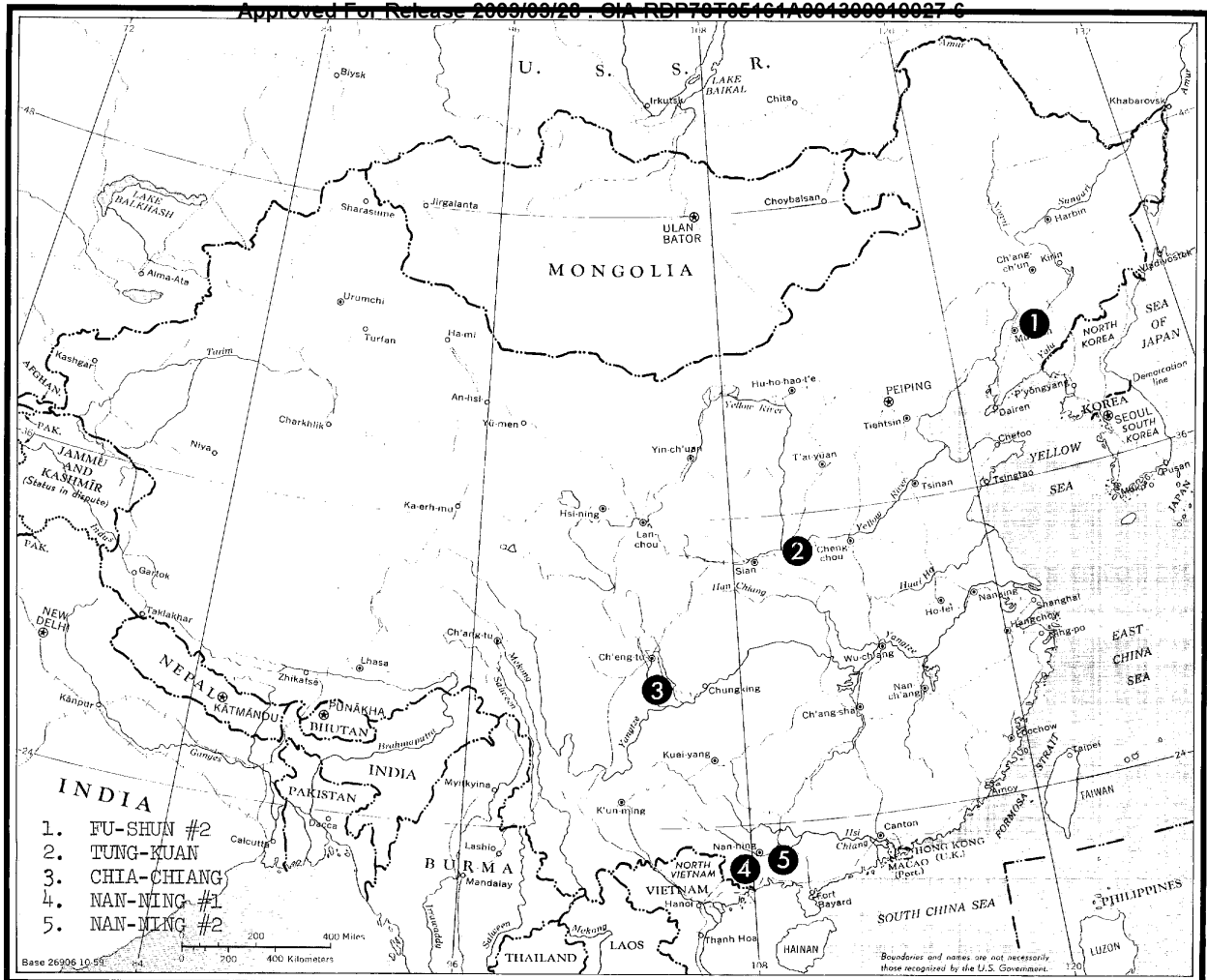
THE REGIONAL PETROLEUM STORAGE
OF CHINA

Prepared By:
The Chemical and Scientific Section
Industrial Branch, IAS

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REGIONAL PETROLEUM STORAGE OF CHINA

This report is a continuation of a study on the regional petroleum storage of China (CIA/PIRs - 65133, 65054, 61037). The facilities covered in this report appear to be a part of the new generation of storage sites being constructed in China. The construction of the five new areas began prior to [] and has continued to the present.

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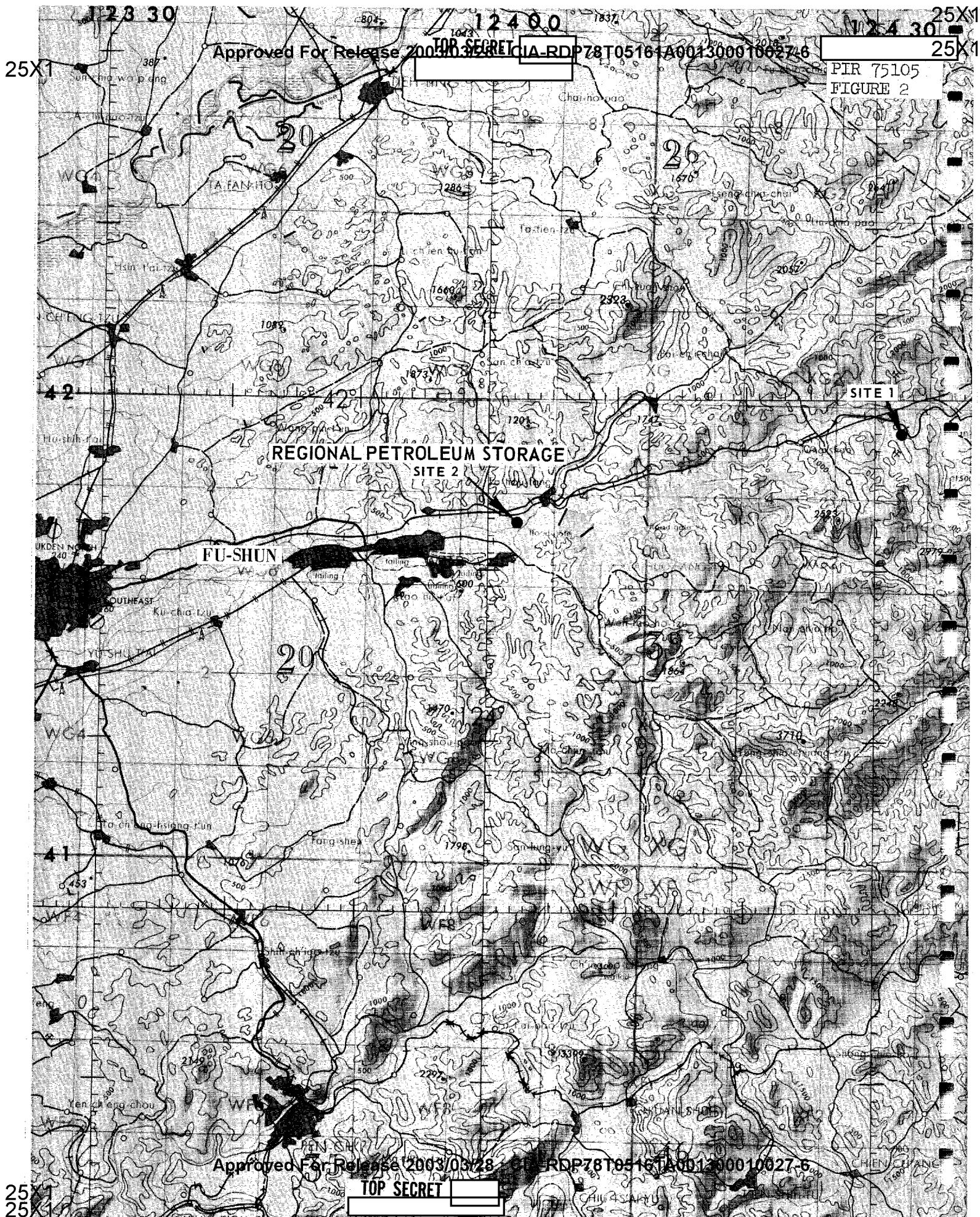
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FIGURE 2

REGIONAL PETROLEUM STORAGE
SITE 2

FU-SHUN

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FU-SHUN REGIONAL PETROLEUM STORAGE #2

This installation is located 5 nm east of Fu-shun, China at the approximate geographic coordinates 41 53N - 124 02E (Figures 1 and 2) and is served by a spur of the Fu-shun to Nan-tsa-mu Railroad and by road.

The facility consists of a railhead and support area, and semi-buried petroleum storage tanks (Figures 3 and 4).

25X1

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[] the installation was approximately 50% completed. Photography of [] revealed that there were 6 semi-buried tanks in various stages of construction, 2 large and 4 small cylindrical storage tanks, and approximately 19 buildings.

Note: The line drawing when compared to the photo enlargement has been rotated approximately 150 degrees counter-clockwise.

REFERENCES

25X1

MAPS AND CHARTS

General Locator Map, China-26906, 10-59 (UNCLASSIFIED)

ACIC, USAF Pilotage Chart, PCF-9CG, 1st Edition, 23 May 1966,
Scale 1:500,000, (UNCLASSIFIED)

- 2 -

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TABLE 1
FU-SHUN REGIONAL PETROLEUM STORAGE #2

ITEM	DIMENSIONS* (FEET)	AREA (SQUARE FEET)
1	x 40	
2	x 40	
3	80 x	
4		
5		
6	x 50	
7	100 x	
8	x 50	
9		
10		
11	75 x	
12		
13	325 x	
14		
15	x 35	
16	95 x	
17		
18		
19		
20	diameter	
21	diameter 75	
22	diameter	
23	diameter	
24	diameter 60	
25	diameter	
26-27	diameter 80	
28-29	diameter 55	
30-31	diameter	

TOTAL ROOF COVER OF SUPPORT BUILDINGS

* All measurements have been made by the NPIC Technical Intelligence Division, and are considered to be accurate within ± 5 feet or $\pm 3\%$, whichever is greater. Number 1 through 19 are support buildings and 20 through 31 are tanks.

TOP SECRET

RAILHEAD AND SUPPORT AREA

SEMI-BURIED TANKS U/C

FU-SHUN REGIONAL PETROLEUM STORAGE #2
FU-SHUN, CHINA
41 53N - 124 02E

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25X1
25X1

— Road
— Railroad
□ Building
○ Tank
--- Trail

9 10 11 12

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REGIONAL PETROLEUM STORAGE #2
1:10,000

25X1
25X1

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FIGURE 5

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25X1

35 00

34 30

REGIONAL PETROLEUM STORAGE

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25X1

25X1

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TUNG-KUAN REGIONAL PETROLEUM STORAGE

This storage facility is located 7 nm southeast of Tung-kuan, China at the approximate geographic coordinates 34 31N - 110 24E (Figures 1 and 5) and is served by a spur of the Tung-kuan to Chin-ling Railroad and by road.

The facility consists of a support area, a railhead, and semi-buried storage tanks (Figures 6 and 7).

Work on the support facility was first noted on photography of [] approximately 67 buildings were completed. The 23 storage tanks were first observed in various stages of construction on photography dated []

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25X1

25X1

Note: The line drawing when compared to the photo enlargement has rotated 90 degrees clockwise.

REFERENCES

25X1

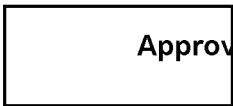
MAPS AND CHARTS

General Locator Map, China-26906, 10-59 (UNCLASSIFIED)

ACIC, USAF Pilotage Chart, PCL-385A, 1st Classified Edition, January 1958,
Scale 1:500,000 (CONFIDENTIAL)

25X1
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[REDACTED]
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25X1

TABLE 2
TUNG-KUAN REGIONAL PETROLEUM STORAGE

25X1

25X1

25X1

25X1

25X1

ITEM	DIMENSIONS* (FEET)	AREA (SQUARE FEET)
1	[REDACTED]	<div></div>
2	35 x 35	
3	diameter [REDACTED]	
4	diameter [REDACTED]	
5	125 x [REDACTED]	
6	[REDACTED]	
7	diameter 90	
8-9	diameter [REDACTED]	
10	diameter [REDACTED]	
11	diameter [REDACTED]	
12	diameter [REDACTED]	
13	diameter [REDACTED]	
14	diameter [REDACTED]	
15	[REDACTED] x 30	
16	diameter [REDACTED]	
17	diameter [REDACTED]	
18-21	diameter [REDACTED]	
22-26	diameter [REDACTED]	
27	diameter [REDACTED]	
28	100 x 45	
29	[REDACTED] x 40	
30	[REDACTED] x 90	
31	20 x 140	
32	[REDACTED] x 145	
33	[REDACTED] x 35	
34	[REDACTED]	
35-36	[REDACTED]	
37	[REDACTED]	
38	[REDACTED]	
39	[REDACTED]	
40	[REDACTED]	
41	[REDACTED] x 40	
42-43	60 x [REDACTED]	
44	[REDACTED]	

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

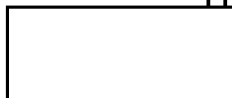
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

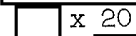


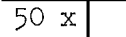


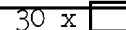


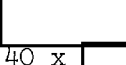
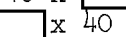


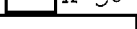

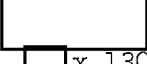
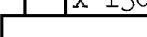
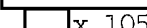

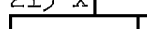


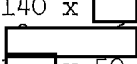
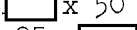

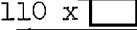



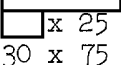



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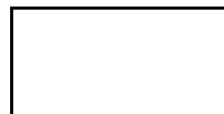
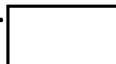
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TABLE 2 (cont.)

	ITEM	DIMENSIONS* (FEET)	AREA (SQUARE FEET)	
25X1	45	 x 30		25X1
	46	 x 35		25X1
25X1	47	50 x 		25X1
25X1	48	 x 20		25X1
25X1	49	130 x 		25X1
25X1	50			
	51			
	52	50 x 		25X1
	53	100 x 		
25X1	54			
	55	30 x 		25X1
25X1	56	 x 30		
25X1	57			
	58			
25X1	59	40 x 		25X1
25X1	60	 x 40		
25X1	61			
25X1	62	 x 30		
25X1	63			
	64			
	65			
25X1	66	 x 130		
25X1	67			
25X1	68	 x 105		
25X1	69	215 x 		25X1
25X1	70			
	71			
	72	140 x 		25X1
25X1	73			
25X1	74	 x 50		
	75-77	95 x 		25X1
	78-80	110 x 		25X1
25X1	81			
	82			
25X1	83	 x 25		
	84-85	30 x 75		
		60 x 		25X1

- 6 -

TOP SECRET



25X1

25X1

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PIR 75105

TABLE 2 (cont.)

ITEM	DIMENSIONS* (FEET)	AREA (SQUARE FEET)
86		
87		
88		
89	x 30	
90	x 60	
91		
92		
93	diameter	

TOTAL ROOF COVER OF SUPPORT BUILDINGS

* All measurements have been made by the NPIC Technical Intelligence Division, and are considered to be accurate within whichever is greater. Numbers 1, 2, 5, 6, 15, and 28 through 93 are support buildings and 3, 4, 7 through 14 and 16 through 27 are tanks.

TOP SECRET

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6
PIR 75105
FIGURE 6

5X1

SEMI-BURIED TANKS U/C

SMALL TANKS

SUPPORT AREA

RAILHEAD

TUNG-KUAN REGIONAL PETROLEUM STORAGE
TUNG-KUAN, CHINA
34 31N - 110 24E

TOP SECRET

25X1

— Road
— Railroad
□ Building
○ Tank

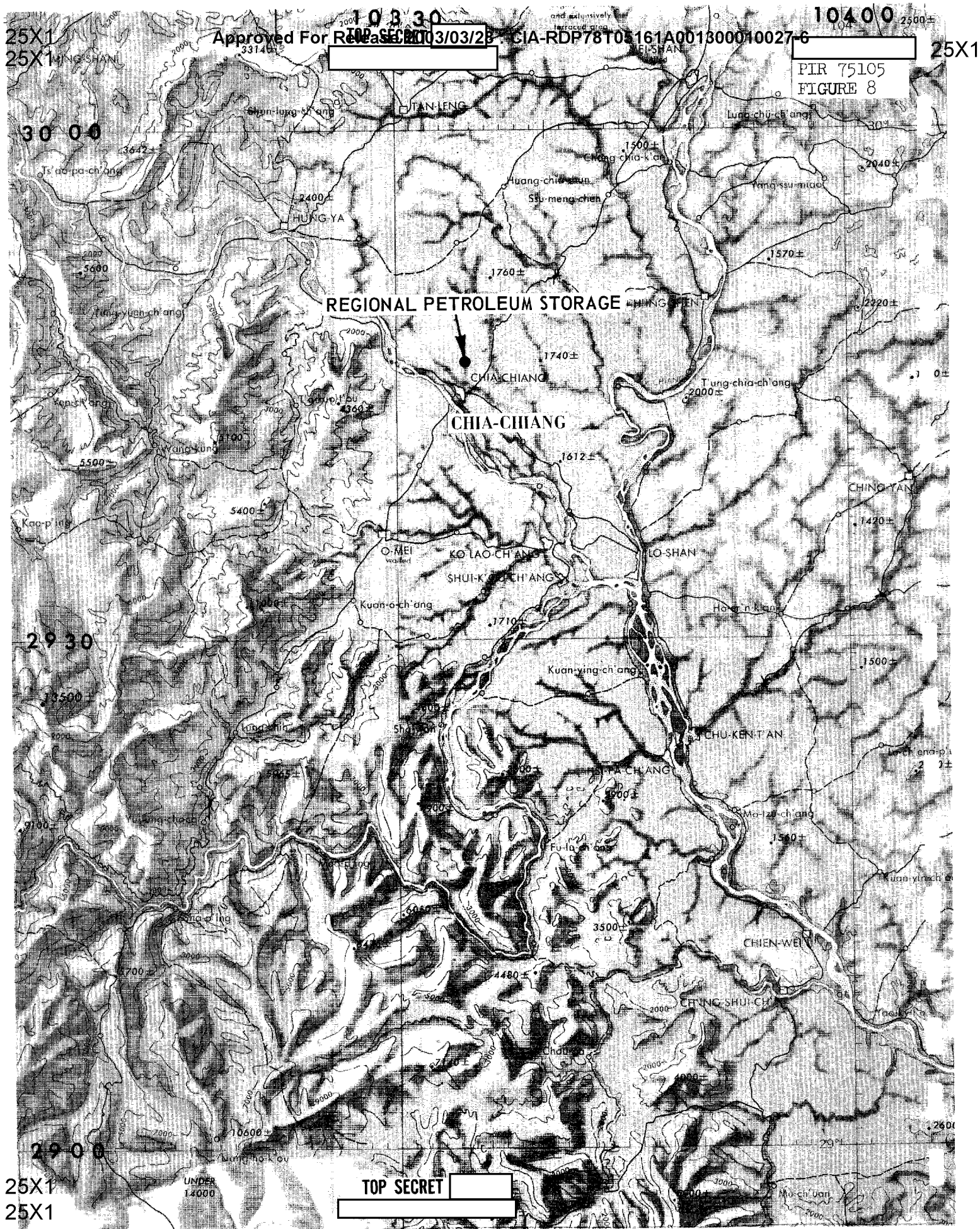
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REGIONAL PETROLEUM STORAGE
TUNG-KUAN, CHINA

TOP SECRET

25X1



25X1



TOP SECRET



25X1

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25X1

CHIA-CHIANG REGIONAL PETROLEUM STORAGE

This installation is located 2.5 nm north of Chia-chiang, China at the approximate geographic coordinates 29 47N - 103 34E (Figures 1 and 8), and is served by a spur of the Chia-chiang to Mei-shan Railroad and by road.

The area consists of a support area, a railhead, and semi-buried petroleum storage tanks (Figures 9 and 10).

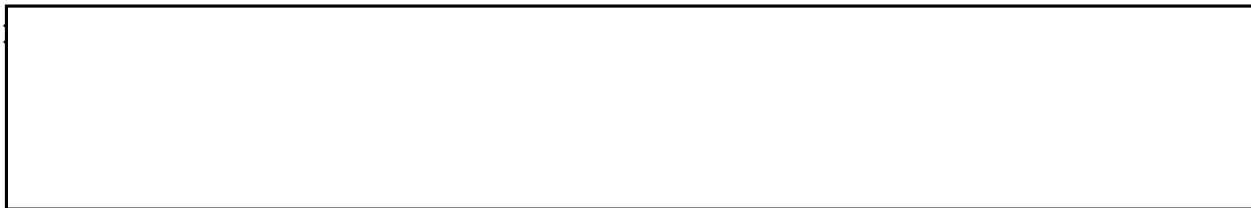
Work on the storage site was first noted on photography dated at which time a service access road had been completed. By this installation contained 24 buildings and 13 semi-buried tanks in various stages of construction.

25X1
25X1

25X1

REFERENCES

25X1



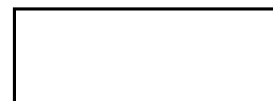
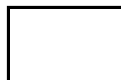
MAPS AND CHARTS

General Locator Map, China-26906, 10-59 (UNCLASSIFIED)

ACIC, USAF Pilotage Chart, PC-495D, 2nd Edition Revised, 30 August 1965,
Scale 1:500,000 (UNCLASSIFIED)

- 7 -

TOP SECRET



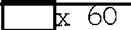

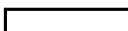
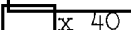


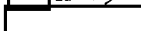


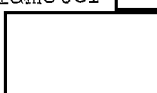
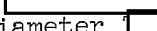
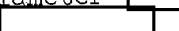

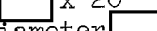
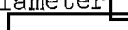


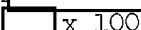
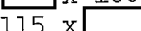
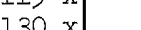
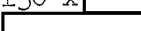


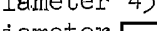
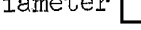




25X1
25X1

TOP SECRET

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TABLE 3
CHIA-CHIANG REGIONAL PETROLEUM STORAGE

ITEM	DIMENSIONS* (FEET)	AREA (SQUARE FEET)	
1	diameter 75		25X1
2			25X1
3	 x 60		25X1
4	diameter 75		25X1
5	85 x 		25X1
6	40 x 40		25X1
7			25X1
8	 x 40		25X1
9	95 x 		25X1
10	 x 85		25X1
11			25X1
12	diameter 		25X1
13	diameter 		25X1
14			25X1
15			25X1
16			25X1
17	diameter 		25X1
18			25X1
19	 x 20		25X1
20	diameter 		25X1
21			25X1
22			25X1
23			25X1
24			25X1
25	 x 100		25X1
26	115 x 		25X1
27	130 x 		25X1
28			25X1
29			25X1
30-33	diameter 45		25X1
34-35	diameter 		25X1
TOTAL ROOF COVER OF SUPPORT BUILDINGS			

* All measurements have been made by the NPIC Technical Intelligence Division, and are considered to be accurate within  whichever is greater. Numbers 2, 3, 5 through 11, 14 through 16, 18, 19, and 21 through 29 are support buildings and Numbers 1, 4, 12, 13, 17, 20 and 30 through 35 are tanks.

- 8 -

TOP SECRET

25X1

TOP SECRET
a302050700/28 : G

PIR 75105
FIGURE 9

16 SEMI-BURIED TANKS U/C

10 SMALL TANKS U/C

RAILHEAD

SUPPORT AREA

CHIA-CHIANG REGIONAL PETROLEUM STORAC
CHIA-CHIANG, CHINA
29 47N - 103 34E

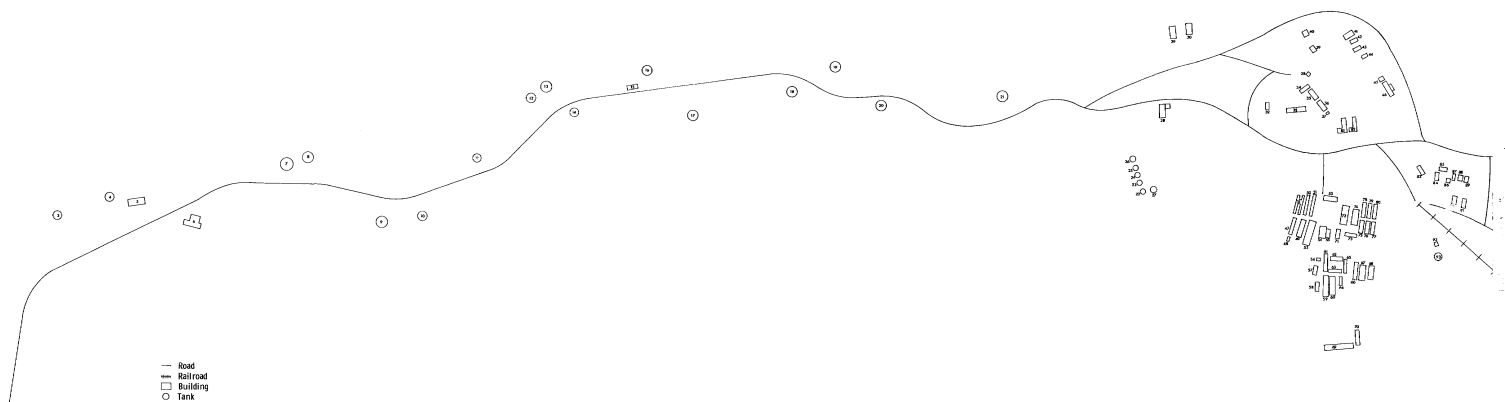
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25X
25X

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25X1
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TOP SECRET

REGIONAL PETROLEUM STORAGE
TUNG-KUAN, CHINA

25X1
25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010027-6

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25X1

TOP SECRET

25X1

DDI IMAGERY ANALYSIS STAFF

PIR 75105

25X1

NAN-NING REGIONAL PETROLEUM STORAGE #1

This storage area is located 5 nm east-northeast of Nan-ning, China at the approximate geographic coordinates 22 50N - 108 24E (Figures 1 and 11), and is served by a spur of the Nan-ning to Liu-ching-hsu Railroad and by road.

The facility consists of a support area, a railhead, and the semi-buried tanks (Figures 12 and 13).

Work on the facility was started between

25X1

The latest photography dated showed that the facility contained 4 buildings, 5 large semi-buried tanks and 2 small cylindrical tanks.

25X1

25X1

Note: The line drawing when compared to the photo enlargement has been rotated 100 degrees clockwise.

REFERENCES

25X1

MAPS AND CHARTS

General Locator Map, China-26906, 10-59 (UNCLASSIFIED)

ACIC, USAF Operational Navigation Chart, ONC J-11, 5th Edition, 28 January 1966, Scale 1:1,000,000 (UNCLASSIFIED)

TOP SECRET

25X1

25X1

25X1

TOP SECRET


25X1

DDI IMAGERY ANALYSIS STAFF

TABLE 4
NAN-NING REGIONAL PETROLEUM STORAGE #1

ITEM	DIMENSIONS* (FEET)	AREA (SQUARE FEET)
1	diameter <input type="text"/>	<div></div>
2	diameter <input type="text"/>	
3	diameter 60	
4	diameter <input type="text"/>	
5	diameter <input type="text"/>	
25X1 6	<div></div>	
7	<div></div>	
8	diameter <input type="text"/>	
9	diameter <input type="text"/>	
25X1 10	<input type="text"/> x 30	
11	85 x <input type="text"/>	
TOTAL ROOF COVER OF SUPPORT BUILDINGS		

* All measurements have been made by the NPIC Technical Intelligence Division, and are considered to be accurate within ± 5 feet. Numbers 6, 7, 10 and 11 are support buildings and Numbers 1 through 5 and 8 and 9 are tanks.

Note: According to the CIA/IAS analyst, the average diameter of tanks 5 and 6 are  feet and of tanks 7 through 11 are 60 ± 5 feet.

25X1

- 10 -

TOP SECRET

25X1

25X1

25X1

25X1
25X1

TOP SECRET

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FIGURE 12

5 SEMI-BURIED TANKS U/C

SUPPORT AREA

RAILHEAD

NAN-NING REGIONAL PETROLEUM STORAGE #1
NAN-NING, CHINA
22 50N - 108 24E

25X1

TOP SECRET

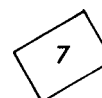
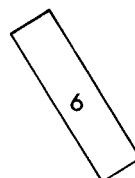
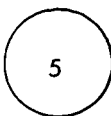
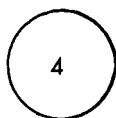
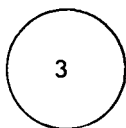
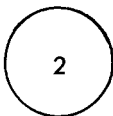
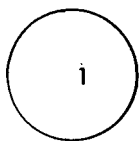
2
2

TOP SECRET

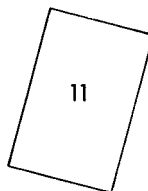
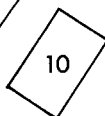
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FIGURE 13

25X1
25X1



REGIONAL PETROLEUM STORAGE #1
NAN-NING, CHINA



- Road
- Building
- Tank

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TOP SECRET

25X

107 30

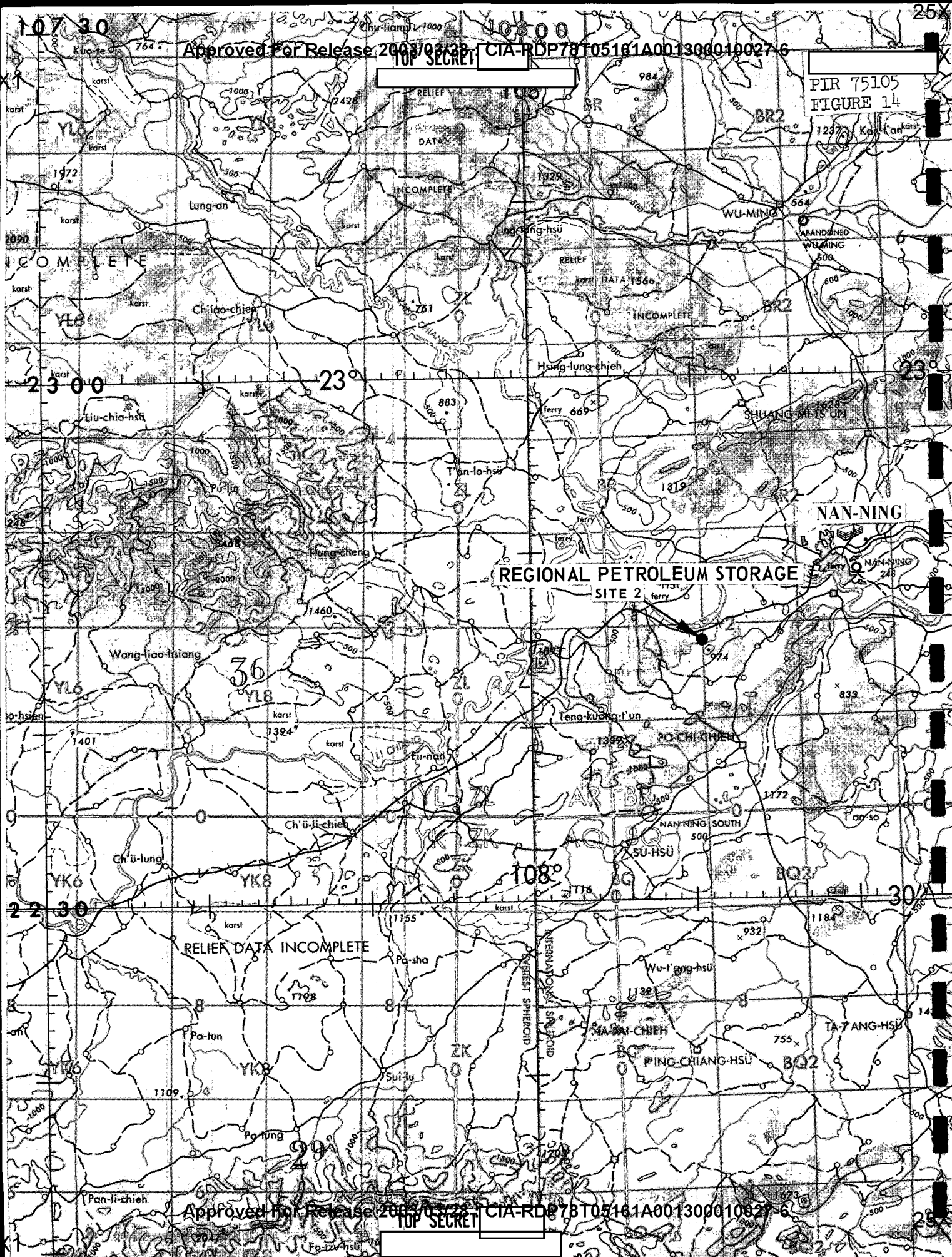
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TOP SECRET

PIR 75105
FIGURE 14

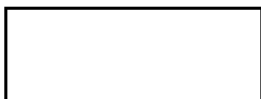


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TOP SECRET

25X

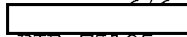
25X1



TOP SECRET 

25X1

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25X1

NAN-NING REGIONAL PETROLEUM STORAGE #2

This installation is located 10 nm west-southwest of Nan-ning, China at the approximate geographic coordinates 22 45 30N - 108 10 30E (Figures 1 and 14) and is served by the Nan-ning to Hanoi Railroad and by road.

The storage area consists of a support area, a railhead, and semi-buried petroleum storage tanks (Figures 15 and 16).

25X1

Construction of the facility started between 
 On the latest photography dated  the facility appeared to be in an early stage of construction with 24 buildings and excavations for 7 semi-buried tanks in various stages of construction.

25X1

25X1

Note: The line drawing when compared to the photo enlargement has been rotated 90 degrees clockwise.

REFERENCES



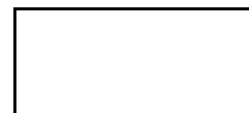
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MAPS AND CHARTS

General Locator Map, China-26906, 10-59 (UNCLASSIFIED)

ACIC, USAF Pilotage Chart, PC-J11AG, 1st Edition, 10 December 1965,
Scale 1:500,000 (UNCLASSIFIED)

- 11
TOP SECRET 

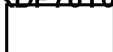


25X1
25X1

25X1





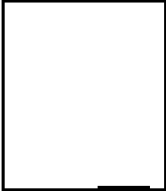



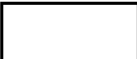







TOP SECRET



25X1

DDI IMAGERY ANALYSIS STAFF

TABLE 5
NAN-NING REGIONAL PETROLEUM STORAGE #2

ITEM	DIMENSIONS (FEET)	AREA (SQUARE FEET)	
1	110 x 		25X1
2			25X1
3			25X1
4			
5			
6			
7			
8	20 x 		25X1
9			25X1
10			
11	55 x 		25X1
12			25X1
13			
14	15 x 		25X1
15			25X1
16			
17			
18			
19			
20			
21	diameter 		25X1
22	diameter		
23	diameter		
24	diameter		
25	diameter		
26	diameter		
27	diameter		
28			25X1
29	 x 10		
30			25X1
31			

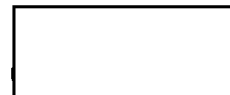
TOTAL ROOF COVER OF SUPPORT BUILDINGS

* All measurements have been made by the NPIC Technical Intelligence Division, and are considered to be accurate within for the buildings and + 5 feet for the tanks. Numbers 1 through 20 and 28 through 31 are support buildings and Numbers 21 through 27 are tanks.

25X1

- 12 -

TOP SECRET



25X1
25X1

25X1

TOP SECRET

PIR 75105
FIGURE 15

25X1

25X1

RAILHEAD AND SUPPORT AREA

7 SEMI-BURIED TANKS

NAN-NING REGIONAL PETROLEUM STORAGE #2

NAN-NING, CHINA

22 45 30N - 108 10 30E

TOP SECRET

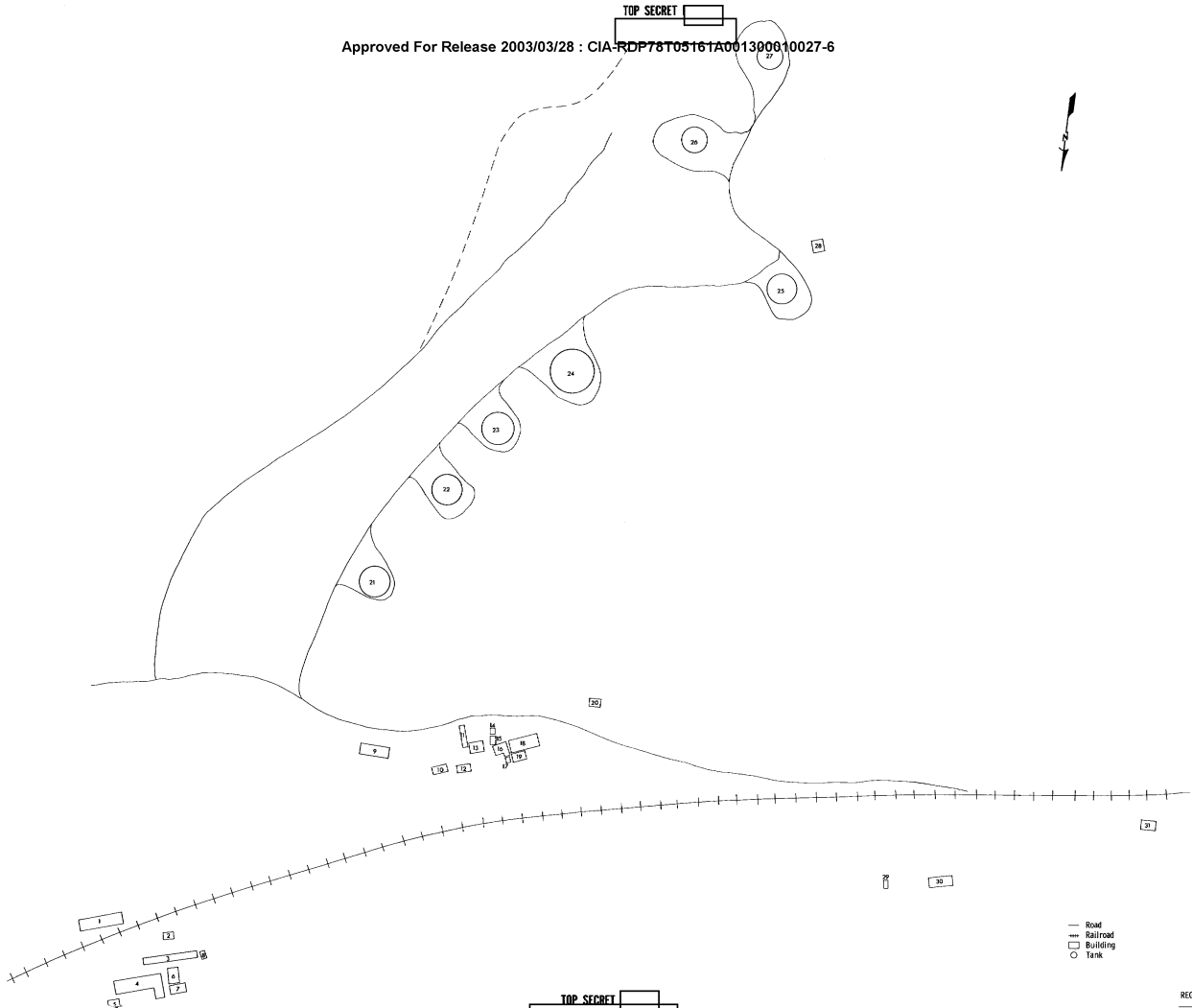
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REF ID: A66666
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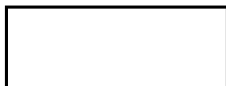


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REGIONAL PETROLEUM STORAGE #2
25X1
25X1

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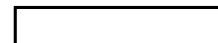


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25X1

DDI IMAGERY ANALYSIS STAFF



PIR 75105

25X1

REQUIREMENT

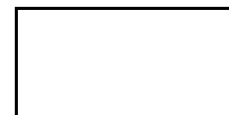
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CIA/IAS PROJECT

30529-7

- 13 -

TOP SECRET



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TOP SECRET

TOP SECRET